Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: Antifouling Blue
Identification Number: 207013
Product Use/Class: Antifouling/Marine Coating
Supplier: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Preparer: Department, Regulatory

Revision Date: 09/27/2002

Manufacturer: Kop-Coat Inc.
Marine Group East
36 Pine Street
Rockaway, NJ 07866
USA

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Cuprous Oxide	1317-39-1	50.0				
Aromatic Petroleum Distillates	64742-94-5	20.0	N.E.	N.E.	100 PPM	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.E.	10 mg/m3	N.E.
1,2,4-Trimethylbenzene	95-63-6	10.0	25 PPM	N.E.	N.E.	N.E.
Naphthalene	91-20-3	10.0	10 PPM	N.E.	10 PPM	N.E.
Dibutyl Phthalate	84-74-2	5.0	5 MG/M^3	N.E.	5 MG/M^3	N.E.
Xylene	1330-20-7	5.0	100PPM	150PPM	100PPM	N.E.
Aromatic Petroleum Distillates	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: High vapor concentrations can irritate eyes, nose and respiratory passages. Causes nose and throat irritation. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Flammable liquid and vapor. Harmful if swallowed. Causes eye irritation.
Effects Of Overexposure - Eye Contact: Causes eye irritation.
Effects Of Overexposure - Skin Contact: Prolonged or repeated skin contact may cause irritation.
Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Avoid breathing vapors or mists. Harmful if inhaled.
Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.
Effects Of Overexposure - Chronic Hazards: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.
Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.
First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.
First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 116 F (Setaflash)
LOWER EXPLOSIVE LIMIT: 1.0 %
UPPER EXPLOSIVE LIMIT : 7.0 %
Extinguishing Media: Dry Chemical, Foam, Water Fog
Unusual Fire And Explosion Hazards: Isolate from heat, electrical equipment, sparks and open flame. Vapors can travel to a source of ignition and flash back. Vapors may form explosive mixtures with air.
Special Firefighting Procedures: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Do not discharge into lakes, streams, ponds, or public water systems. This pesticide is toxic to aquatic organisms.

Section 7 - Handling And Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
Storage: Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.
Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.
Eye Protection: Use safety eyewear designed to protect against splash of liquids.
Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.
Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range: 231 - 644 F
Vapor Density: Heavier than Air

Odor:	Solvent	Odor Threshold:	ND
Appearance:	Blue Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Slight		
Freeze Point:	N.D.	Specific Gravity:	1.801
Vapor Pressure:	ND	PH:	N.D.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition.
Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.
Hazardous Decomposition: When heated to decomposition it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will not occur under normal conditions.
Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: N.D.

Product LC50: N.D.

Chemical Name	LD50	LC50
Cuprous Oxide		
Aromatic Petroleum Distillates	4900mg/kg(rat)	N.E.
Titanium Dioxide	7500mg/kg Rats	
1,2,4-Trimethylbenzene	N.E.	RAT 18G/M^3 4HR
Naphthalene		
Dibutyl Phthalate	RAT 8000MG/KG	N.D.
Xylene	RAT 4300MG/KG	RAT 5000PPM 4HR
Aromatic Petroleum Distillates	4900mg/kg(rat)	N.E.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT	Packing Group:	III
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	3	Resp. Guide Page:	127
DOT UN/NA Number:	UN1263		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA `Hazard Categories¿ promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Cuprous Oxide	1317-39-1
1,2,4-Trimethylbenzene	95-63-6
Naphthalene	91-20-3
Dibutyl Phthalate	84-74-2
Xylene	1330-20-7

Toxic Substances Control Act:
Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:
EPA Registation Number: 60061-63-7033
U.S. State Regulations: As follows -
New Jersey Right-to-Know:
The following materials are non-hazardous, but are among the top five components in this product.
None
Pennsylvania Right-to-Know:
The following non-hazardous ingredients are present in the product at greater than 3%.
None
California Proposition 65:
Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS Number
Silicon Dioxide (Quartz)	14808-60-7

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	CAS Number
Toluene	108-88-3

International Regulations: As follows -
CANADIAN WHMIS:
This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.
CANADIAN WHMIS CLASS: B3 D2 B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Reactivity: 0 Personal Protection: X
<TDWIDTH="37%" Flammability: 2
VALIGN="TOP"
VOLATILE ORGANIC COMPOUNDS, g/l: 492
REASON FOR REVISION: Regulatory Update
Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined
The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.